

**2007 DoD Standardization Conference**

***Enhancing Multinational  
Force Capability through  
Standardization and  
Interoperability***

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# Overview



- Development of capability, interoperability and standardization
  - Definitions
  - Military Environment
  - Requirements
    - Capability
    - Interoperability
  - Multiculturalism
- Role of standardization
- Challenges

# *Capability*



***The ability to achieve a specified (military) objective (USA)***

***The ability to produce an effect that the users of assets or services need to achieve (ACT)***

**Doctrine**

**Organization**

**Training**

**Materiel**

**Leadership Development**

**Personnel**

**Facilities**

**Interoperability**

***D O T M L P F I***

# ***Interoperability***



***The ability to operate in synergy in the execution of assigned tasks***



# ***Standardization***



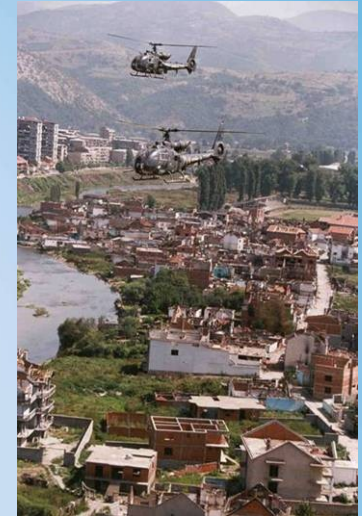
***The development and implementation of  
concepts, doctrines, procedures and  
designs  
in order to achieve and maintain the  
compatibility, interchangeability or  
commonality  
which are necessary to attain the required  
level of interoperability or to optimize the  
use of resources, in the fields of  
operations, materiel and administration***



# *Environment*



- Global
- Combined Joint Operations
- Partnerships
- Technology
- CBRN Proliferation
- Asymmetric threats



# *Rīga Summit*

- 2008 Enlargement
- Expanded Partnership for Peace (PfP)
- Training Cooperation Initiative
  - Mediterranean Dialogue (MD)
  - Istanbul Cooperation initiative (ICI)
- NATO Response Force (NRF) FOC
- Comprehensive Political Guidance (CPG)

# CPG Capability Requirements



- **Multinational joint expeditionary operations** with deployable, sustainable and **interoperable forces**, with coordinated, multinational logistic support
- Adaptable forces, high level of readiness
- Deter, disrupt, defend and protect against terrorism
- Protect information systems against cyber attacks
- Defend against WMD and CBRN hazards, theatre missile threats
- Conduct operations in demanding environments
- Equipment and procedures to identify hostile elements, minimize unintended damage and risk to friendly forces
- **Coordinated efforts of several authorities, institutions and nations**
- Stabilization operations and reconstruction
- **Interoperability and standardization amongst Allies, flexibility to cooperate with partners, including release of appropriate standards**



# *Interoperability Requirements*



- Communication
  - Human relations
  - Procedures
  - Equipment
- Operations
- Support
- Training and Exercising



# Levels of Interoperability



I  
N  
T  
E  
R  
O  
P  
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A  
B  
I  
L  
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S

<b>Kinds of Missions (Operations)</b> <b>Requirements for Commands and Troops</b>	
<b>Level 1</b>	<b>Peacekeeping and Humanitarian Missions</b>
Compatibility	Doctrines; Concepts; Language; Terminology; Air Defence; NBC; Principles of Command; Communication; Computers
	with: Main Systems--Readiness, Warning, Identification, etc.
	Principles of Decision Making and Planning; Formatting of Documents
	National Logistics and Medical Services
<b>Level 2</b>	<b>Peacemaking; Article 5 Operations</b>
Interchangeability	All requirements from Level 1 and additionally: Logistics;
Maintenance;	
with:	Engineering; Medical; Manning; CIMIC; Air Mobility; Food; Rescue, Life Saving on Land, Air, Sea; Compatible Levels of Combat Skill
<b>Level 3</b>	<b>NRF; DAT; Protection of Region</b>
Commonality	All requirements from Level 1 and 2 and additionally: Same Weapons;
with:	Ammunition; C3 Systems; Integrated Logistics; Material; Tactics; Levels of Skills, etc.; Dedicated Transport
<b>Level 4</b>	<b>Special Operations (DAT, Organised Crime Ops, Capture of WMD)</b>
Speciality	All requirements from Levels 1, 2 and 3 and additionally. Same special
with:	skills; Same Transport and Integrated Logistics

# *Multiculturalism*



- History
- Education
- Ideology
- Language
- Finance
- Force Structure



# ***Role of Standards***



- Operational
  - Procedures (Doctrine, TTPs)
  - Experience (Training, Exercises)
- Materiel / Technical
  - CD&E (RTO, ACT)
  - Specifications (Procurement cost)
  - Target specific challenges (NATO funded C3)
- Administrative
  - Terminology
  - Education (NDC, NATO School)



# *NATO Standardization Organization*



- The role of the NSO is to...  
*... harmonise and coordinate Alliance standardization efforts and provide support for standardization activities*
- NATO Standardization Agency provides support to...
  - NATO Committee for Standardization (Administrative)
  - Military
  - Coordinating





# Civil Standards



- Requirements
  - Products
  - Services
  - Processes
- Conformity Assessment
- NSA Technical Cooperation Agreement



# *Challenges*

- Feedback (Lessons Learned)
  - National systems
  - NATO systems
  - “Reachout”
- Participation
  - SME availability
  - Costs
- Classification
  - Information sharing
  - Allied standards = National standards

***Thank You !***

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